FILE 'REGIS	STRY' ENTERED AT 13:58:40 ON 24 NOV 2010
	EXP 1-KESTOSE/CN
1	S E3
	EXP NYSTOSE/CN
2	S E3-E4
	EXP FRUCTOFURANOSYLNYSTOSE/CN
1	S E1
FILE 'HCAPI	US' ENTERED AT 13:59:49 ON 24 NOV 2010
137	S L1 AND L2 AND L3
223462	S CAT OR DOG OR PET OR (COMPANION ANIMAL)
3	S L4 AND L5
1007012	S CALCIUM
13	S L4 AND L7
6	S L8 AND (PY<2004 OR AY<2004 OR PRY<2004)

L1 L2 L3

L4 L5 L6 L7 L8 L9

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FILE 'HOME' ENTERED AT 13:58:26 ON 24 NOV 2010
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FILE 'REGISTRY' ENTERED AT 13:58:40 ON 24 NOV 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ${\tt ZIC/VINITI}$ data file provided by ${\tt InfoChem.}$

STRUCTURE FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8 DICTIONARY FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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=> exp 1-kestose/cn
E1
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E2
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                1-KETO-2, 3-EPOXYCHLORDENE/CN
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=> exp fruct	ofuranosylnystose/cn
E1	1 FRUCTOFURANOSYL NYSTOSE/CN
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E3	0> FRUCTOFURANOSYLNYSTOSE/CN
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E7	2 FRUCTOKINASE (AGROBACTERIUM TUMEFACIENS STRAIN C58 GENE SCRK
= :)/CN
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E9	1 FRUCTOKINASE (ARABIDOPSIS THALIANA CLONE RAFL05-07-J12 (R099
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L3	1 "FRUCTOFURANOSYL NYSTOSE"/CN

=> file hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 22.98 23.20

FILE 'HCAPLUS' ENTERED AT 13:59:49 ON 24 NOV 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 24 Nov 2010 VOL 153 ISS 22 FILE LAST UPDATED: 23 Nov 2010 (20101123/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 11 and 12 and 13
           558 L1
           460 L2
           199 L3
           137 L1 AND L2 AND L3
=> s cat or dog or pet or (companion animal)
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         76317 DOG
         94123 PET
         12969 COMPANION
       1727199 ANIMAL
           200 COMPANION ANIMAL
                 (COMPANION (W) ANIMAL)
1.5
        223462 CAT OR DOG OR PET OR (COMPANION ANIMAL)
=> s 14 and 15
            3 L4 AND L5
=> d 16 1-3 ti abs bib
    ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
L6
TI
    Compositions comprising fermentable fiber which are adapted for use by a
     companion animal and kits and methods of their use
AB
     The present disclosure is directed to compns., kits, and methods which are
     adapted for use (especially oral use) by companion animals, for enhancement of
     qastrointestinal health. In one embodiment, compns. are provided which
     comprise a fermentable fiber, wherein the composition is a liquid
    2005:474928 HCAPLUS <<LOGINID::20101124>>
AN
DM
    143:25818
TΙ
    Compositions comprising fermentable fiber which are adapted for use by a
     companion animal and kits and methods of their use
IN
    Norton, Sharon Ann; Goldy, Gary Gregory
PA
    The Iams Company, USA
    U.S. Pat. Appl. Publ., 10 pp.
SO
    CODEN: USXXCO
DT
    Patent
LA English
FAN.CNT 1
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PRAI US 2003-725248
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    WO 2004-US40084
                         W
                               20041201
L6
    ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
TΙ
    Companion animal compositions comprising short-chain
    oligofructose
AB
    Pet feed compns. comprise about 0.01-0.2% short-chain
    oligofructose (by weight of the composition) comprising 1-kestose, nystose, and
    1F-β-fructofuranosylnystose. The compns. are used to enhance the
```

- gastrointestinal health of the animal and may improve fecal odor. AN 2005:471849 HCAPLUS <<LOGINID::20101124>>
- DN 143:6762
- ΤI Companion animal compositions comprising short-chain
- oligofructose
- IN Vickers, Robert Jason; Boileau, Thomas William-Maxwell; Sunvold, Gregory Dean
- PA The Iams Company, USA
- U.S. Pat. Appl. Publ., 7 pp. SO
- CODEN: USXXCO
- DT Patent.
- English

LM	Elig	112
FAN.	CNT	1

	PATENT NO.							APPLICATION NO.										
PI	US AU	2005 2004 2004	0118: 2950	299 04		A1 A1		2005 2005 2008	0602 0616		US 2	003-	7252	51		2	0031	201
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	EP	1689																
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		3R 2004017167 A																
							20070524 JP 2006-542681								20041201			
PRAI																		
	WO	2004	-US4	0085		W		2004	1201									

- ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
- Methods and kits related to administration of a fructooligosaccharide A first embodiment disclosed herein is a method of enhancing total tract digestibility of one or more dietary components in a companion animal, the method comprising administering to the companion animal a companion animal

composition comprising fructooligosaccharide. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for enhancing total tract digestibility of one or more dietary components in the companion animal, are also disclosed. In a related, but sep., embodiment, a method selected from enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, the method comprising administering to a companion animal a companion animal composition comprising fructooligosaccharide, is disclosed. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for a purpose selected from the group consisting of enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, are also disclosed.

AN 2005:471837 HCAPLUS <<LOGINID::20101124>>

DN 143:13251

TI Methods and kits related to administration of a fructooligosaccharide IN Sunvold, Gregory Dean; Boileau, Thomas William-Maxwell; Vickers, Robert Jason

PA The Iams Company, USA SO U.S. Pat. Appl. Publ., 8 pp. CODEN: USXXCO DT Patent

LA English FAN.CNT 1

PAN.	PATENT	K		DATE		APPLICATION NO.						DATE			
PI	US 2005	0118234			2005	0602		US 2	003-	7248	39		2	0031	201
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	CA 2547	059		A1	2005	0616		CA 2	004-	2547	059		2	0041	201
	WO 2005	053426		A1	WO 2004-US40086						20041201				
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	JP 2007	512032		T	2007	0517		JP 2	006-	5426	82		2	0041	201
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PRAI	US 2003	-724839		A	2003										
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	WO 2004	-US40086		W	2004	1201									

=> s calcium L7 1007012 CALCIUM

=> s 14 adn 17

MISSING OPERATOR L4 ADN

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

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=> s 18 and (PY<2004 or AY<2004 or PRY<2004)
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      4837593 AY<2004
      4311905 PRY<2004
            6 L8 AND (PY<2004 OR AY<2004 OR PRY<2004)
=> d 19 1-6 ti abs bib
    ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TТ
    Matrix-forming composition containing pectin
   A liquid edible composition with a pH >6, a viscosity <600 mPa s at a shear
AB
rate
    of 100 s-1 and 20°, and a viscosity ≥125% of the viscosity
    at pH <5 and 37° comprises ≥0.05 weight% pectin (degree of
    methoxylation 2-50) and/or alginate; ≥5 mg calcium per
    100 mL; and ≥0.1 weight% indigestible oligosaccharide (degree of
    polymerization 2-60). Oral administration of the product may be used to treat
or
    prevent obesity in mammals. Thus, a viscous dietetic food composition (100 mL,
    pH 7) may include 0.55 g low-methoxyl pectin, 154 mg calcium
    carbonate, 0.4 g tripotassium citrate, and 1 g Fibersol 2.
    2008:1088763 HCAPLUS << LOGINID::20101124>>
AN
DN
    149:331171
ΤI
    Matrix-forming composition containing pectin
IN
    Navarro Y Koren, Peter Antonio; Van Laere, Katrien Maria Jozefa; De Lange,
    Maria Elisabeth Hermien; Minor, Marcel
    N.V. Nutricia, Neth.
PA
SO
    U.S., 12pp.
    CODEN: USXXAM
DT
    Patent
LA
    English
FAN.CNT 5
    US 74226:
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                      --- --- ---- Mar Daniel No. Date
                                                             20040621 <--
    US 7422764
                      B2 20080909 US 2004-871107
    US 20040258826
                      A1
                            20041223
    US 20030118712
                      A1 20030626 US 2001-22372
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    EP 1410722
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                   A1
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    US 6989166
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RN: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, F1, FR, BG, BG, IE, IT, LU, MC, NL, PT, SE, ST, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2001-22372

A 20011220 C

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

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EP 2002-77222 A 20020607 <--
EP 2002-79289 A 20021016 <--
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A2 20021220 <--
US 2002-279968
WO 2002-NL856
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

- L9 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
- TI Methods and kits related to administration of a fructooligosaccharide
- AB A first embodiment disclosed herein is a method of enhancing total tract digestibility of one or more dietary components in a companion animal, the method comprising administering to the companion animal a companion animal composition comprising fructooligosaccharide. Kits comprising the companion animal composition and information that use of the companion animal composition by a

companion animal is useful for enhancing total tract digestibility of one or more dietary components in the companion animal, are also disclosed. In a related, but sep., embodiment, a method selected from enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, the method comprising administering to a companion animal a companion animal composition comprising fructooligosaccharide, is disclosed. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for a purpose selected from the group consisting of enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, are also disclosed.

- 2005:471837 HCAPLUS <<LOGINID::20101124>> AN
- DN 143:13251
- TΙ Methods and kits related to administration of a fructooligosaccharide IN Sunvold, Gregory Dean; Boileau, Thomas William-Maxwell; Vickers, Robert
 - Jason The Iams Company, USA
- PA SO U.S. Pat. Appl. Publ., 8 pp.
- CODEN: USXXCO
- DT Patent
- LA English

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PRAI US 2003-724839 A 20031201
AU 2004-295005 A3 20041201
WO 2004-US40086 W 20041201
                             20031201 <--
    ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
T.9
    Banana puree fermentation by Lactobacillus acidophilus immobilized in
TI
    Ca-alginate
AB
    Lactobacillus acidophilus and banana puree as a substrate were combined in
     a direct fermentation applying the bacteria as Ca alginate-entrapped cells.
     Cell growth, course of reducing sugars and pH, and utilization of
     fructooligosaccharides were compared with free cell fermentation Fermentation
wit.h
     immobilized microorganisms was more efficient. The contents of L.
     acidophilus and fructooligosaccharides in the final product were higher
     than those of free cell fermented banana medium.
     2004:205343 HCAPLUS <<LOGINID::20101124>>
AN
DN
    140.356098
TΙ
     Banana puree fermentation by Lactobacillus acidophilus immobilized in
    Ca-alginate
AU
     Tsen, Jen-Horng; Lin, Yeu-Pyng; King, V. An-Erl
CS
     Department of Nutrition, China Medical University, Taichung, 404, Taiwan
SO
    Journal of General and Applied Microbiology (2003), 49(6),
    357-361
     CODEN: JGAMA9: ISSN: 0022-1260
    Microbiology Research Foundation
    Journal
    English
T.A
OSC.G 5
             THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT 23
             THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
L9
    ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI
    Production of high content fructooligosaccharides by complex cell system
    A complex biocatalyst reactor system with a microfiltration device was
AB
     employed to produce high content fructooligosaccharides continuously in
     the present invention. Aspergillus japonicus mycelium producing
     β-fructofuranosidase and Gluconobacter oxydans cell producing glucose
     dehydrogenase were mixed with sucrose solution in an aerated stirred tank
    reactor to produce high content fructooligosaccharides. The pH value was
     controlled by calcium carbonate or calcium hydroxide.
     By continuous were discharged continuously from microfiltration device.
    More than 80% in dry weight basis of high content fructooligosaccharides were
    produced by the system.
AN 2004:186493 HCAPLUS <<LOGINID::20101124>>
DN 140:252419
ΤТ
    Production of high content fructooligosaccharides by complex cell system
IN Duan, Guo-Ren; Shiu, Die-Chi; Bi, Jia-Lin
PA
   Natational Science Council, Taiwan
SO
    Taiwan., 6 pp.
    CODEN: TWXXA5
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FAN.CNT 1
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                               20030111 TW 1997-115844
PI TW 517088
                                                                 19971027 <--
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L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

PRAT TW 1997-115844

TI Manufacture of functional polymeric gels useful for immobilized biocatalysts

19971027 <--

ΔB Hydrated polymer gels are frozen in water for water separation, thawed for isolation of the gels, and dried to give functional polymeric gels. An aqueous solution containing Na alginate and fructosyltransferase from Aureobasidium

pullulans was dropped into an aqueous solution containing CaCl2 to give

hydrated gel, which was frozen, thawed, and dried to give a functional gel. An aqueous solution containing sucrose was passed through a column containing the gel to

saccharides containing 50.8 weight% (as solids) fructooligosaccharides

including

1-kestose, nystose, and 1-fructosylnystose.

AN 2002:682835 HCAPLUS <<LOGINID::20101124>>

DN 137:215880

ΤI Manufacture of functional polymeric gels useful for immobilized biocatalysts

Ueno, Hideo; Shinohara, Satoru; Fujii, Takeshi TN

PA Nippon Origo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002253228	A	20020910	JP 2001-60976	20010305 <
PRAI	JP 2001-60976		20010305	<	

L9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ΤI Production of fructooligosaccharides in high yield using a mixed enzyme system of B-fructofuranosidase and glucose oxidase

A mixed enzyme system, with β-fructofuranosidase (obtained from AB Aspergillus japonicus) and com. glucose oxidase (Gluzyme, Novo Nordisk), produced fructooligosaccharides (FOS) in high yield from sucrose. The reaction was performed in an aerated stirred tank reactor controlled at pH 5.5 by a slurry of CaCO3. Glucose, an inhibitor of

β-fructofuranosidase, produced in the reaction was converted by glucose oxidase to gluconic acid, which was then precipitated to calcium gluconate in solution The system produced more than 90% (weight/weight) FOS

on a dry weight basis, the remainder was glucose, sucrose and a small amount of calcium gluconate. Most of the FOS and sucrose was hydrolyzed to fructose in the mixed enzyme system with glucose oxidase and β-fructofuranosidase from Asp. niger.

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ΤТ Production of fructooligosaccharides in high vield using a mixed enzyme system of B-fructofuranosidase and glucose oxidase

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CS Department of Bioengineering, Tatung University, Taipei, Taiwan Biotechnology Letters (2001), 23(18), 1499-1503

SO

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DT Journal

T.A English

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